Steven Nguyen

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Education

Colorado School of Mines | *Bachelor of Science in Computer Science* | **Expected Graduation: December 2026** *Golden, CO*
Relevant Coursework: Agile Software Engineering, Machine Learning, Artificial Intelligence, Deep Learning, Database Management, Advanced Data Structures & Algorithms, Principles of Programming Languages, Operating Systems, Elements of Games & Game Development, Computer Network Systems

Technical Skills

Languages: Java, Python, JavaScript, SQL, TypeScript, C++
Frameworks & Libraries: Spring Boot, JUnit, NumPy, Pandas, TensorFlow, PyTorch, FastAPI, LangGraph, Django, React, React Native
Tools & Platforms: Git, Docker, AWS, Linux, PostgreSQL

Experience

Mobile Application Software Engineer Intern | *SwingLens* | *August 2025 - December 2025* *Denver, CO*
- Built "Swing Pigeon," a React Native app for tennis coaches and players with student profiles, a swing-analysis video player, and a lesson calendar. Shipped to a closed beta of **8** coaches, who rated it **4.3/5** and reported saving **8+ hours per week** on scheduling (post-beta survey)
- Built automated unit test suites and modular API scaffolding for the Chatwoot integration in React Native/Expo, using Google Gemini to accelerate test generation and refactoring, with all AI-generated code manually reviewed before merging
- Led Agile and Test-Driven Development (TDD) workflows as rotating Scrum Master, facilitating weekly stakeholder meetings and assisting with technical documentation to ensure long-term system scalability for future teams

Front-End Software Engineer Intern | *Metropolitan State University* | *May 2023 - August 2023* *Denver, CO*
- Implemented and prototyped user-centered web interfaces for the MSU Online student portal serving **200+ students**, identifying platform bottlenecks to deliver more accessible lectures and a streamlined educational experience
- Integrated Python/Django REST API backend with React frontend, enabling real-time data synchronization and reducing video load time by **~6%**
- Executed comprehensive stakeholder research across **500+** MSU, CCD, and CU students surveys, translating user feedback into actionable UI/UX refinements and modern interface workflows to aid in responsive web design and iterative product development

Computer Engineer Intern | *PC's for People* | *January 2023 - May 2023* *Denver, CO*
- Engineered and deployed hardware and software solutions alongside senior engineers to repurpose legacy systems, expanding digital access and affordable computing to over **400 families and 20 schools across Denver Metro Area**
- Implemented OS environments across Windows 10, macOS, and Ubuntu Linux, conducting rigorous system performance analysis, optimization, and root-cause troubleshooting to improve system reliability by reducing returned machines by **~17%**

Notable Projects

Analyst with Axel: Agentic Financial Analyst | *React, TypeScript, Python, FastAPI, LangGraph, PostgreSQL, Docker*
- Built a ReAct-style research agent with LangGraph, using a typed StateGraph and conditional edges that route between tool execution and a final answer, to autonomously call stock-screening and SEC-filing tools over mock financial data
- Developed a FastAPI backend that initializes the agent once at startup via dependency injection and persists conversation memory in PostgreSQL (Docker)
- Streamed the agent's step-by-step reasoning and answers to a React/TypeScript UI over Server-Sent Events, with citations linking each response to the tool call or database row it came from

Super Bloom: Agricultural Yield Prediction Engine | Python, Scikit-Learn, Pandas, NumPy
- Built an end-to-end ML pipeline to forecast tulip harvest yields from a simulated Kaggle dataset of sensor readings, cultivation logs, and variety attributes, using time-based train/validation/test splits to prevent data leakage
- Engineered agronomic features (growing degree days, bulb energy index), handled missing readings via time-weighted interpolation and outliers via the IQR method, and tuned hyperparameters with 5-fold time-series cross-validation on a chronological 70/15/15 split
- Benchmarked linear regression, SVR, and random forest; the random forest performed best (RMSE 28.2, MAPE 13.1%, R^2 0.81), reducing RMSE about 33% versus the linear baseline
- Developed a dashboard that surfaces yield forecasts, harvest-timing recommendations, and weather-event alerts